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AUG 1957

U. S. DEPARTMENT OF AGRICULTURE

Fall Semester 1957

EVENING COURSES

REGISTER SEPTEMBER 14-21

**Courses for
High School and
College Graduates**

**Training for
Federal Employees**

**Graduate School
U. S. Department of
Agriculture**

Independence Avenue, between 12th and 14th Streets, S.W.
Washington 25, D.C.



REGISTER SEPTEMBER 14-21

GENERAL INFORMATION

Registration Week: September 14-21, in the Patio (first floor) of the Administration Building, U. S. Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington 25, D.C.

Saturdays 9-4 p.m.

Monday-Friday 11-6:30 p.m.

Procedures: Registration must be completed in person, or by someone acting for the registrant. Registration may not be completed by mail. Transcripts of previous educational records are not required, but graduation from high school or the equivalent is the general prerequisite for all courses. In addition, the more advanced courses have specific prerequisites. These are listed in the course descriptions contained in the catalog. Copies of the catalog are available in the personnel and training offices of agencies of the Federal Government and in the Graduate School office. Copies can also be obtained at the time of registration.

Counseling: Members of the Graduate School staff are on hand for counseling, before and during the registration period.

Fees: The charge for tuition is in general \$12 for each credit hour, payable at the time of registration. Arrangements may be made to pay one half of the tuition at that time, in addition to a \$1.00 service charge. The second payment is due by October 18.

Late Registration: After September 21, a \$2.00 late registration fee is charged for each course. Late registrations will be accepted through October 4.

Course Transfers: Until October 4, students may transfer from one course to another without extra charge. After that date, there is a transfer fee of \$1.00, and transfers may be made only with the permission of the instructor concerned.

Class Schedule: Classes begin the week of Monday, September 23, and end the week of Monday, January 20.

National Institutes of Health Program: Registration for classes to be held at National Institutes of Health, Bethesda, Maryland, may be completed at the Department of Agriculture during the week of September 14-21, or at the National Institutes of Health, Clinical Center, during the special registration week, September 23-27. Classes at NIH begin on Monday, September 30. A separate announcement of the NIH program is available at the Graduate School office, or in Room 13-N-228, Clinical Center, NIH, OLiver 6-4000, Extension 2427.

Veterans: Veterans who are applying for entrance to the Graduate School for the first time under Public Law 550 are advised to consult with the Registrar well in advance of registration week. This may assure that their certificates of eligibility from the Veterans Administration will be granted in time for the semester.

Textbooks: Textbooks can be purchased at the Graduate School Bookstore, Room 1022, South Building, at the following times:

Registration Week, September 14-21

September 30-October 11

Saturdays, 9-4 p.m.

Monday-Friday 4:30-6:15 p.m.

Monday-Friday 1-6:30 p.m.

Beginning October 14

First week of classes, September 23-27

Monday-Friday 4:30-5:30 p.m.

Monday-Friday 1-6:30 p.m.

Withdrawals and Refunds: When a student withdraws from a course, a refund is granted in accordance with the following schedule:

Through October 4, tuition less \$5.00 for each course

October 7-18, 60 per cent of the tuition

October 21-November 1, 50 per cent of the tuition

Notice of withdrawal must be made in writing to the Graduate School office. Forms are available there for that purpose. Refunds are computed as of the date that notice of withdrawal is received in the Graduate School office. No refunds will be granted for any reason after November 1. The deadline for credit-audit changes is also November 1.

Parking Space—Cafeteria: Space for parking is available for students and faculty after 5:45 p.m. in three parking courts on the east and south sides of the Administration Building. The entrance to one court is on 12th Street, and to the other two on Independence Avenue. There is also parking space available on the Mall, north of the Administration Building.

The cafeteria, in the fifth wing of the South Building, is open from 5:00 to 6:15 p.m. Students should request cafeteria passes when they register if they plan to use the cafeteria before 5:30 p.m. After that time, passes are not required.

Business Office Hours: The Graduate School office, Room 1031, South Agriculture Building, 14th Street and Independence Avenue, S.W., Washington 25, D. C., is open from 9:00 a.m. to 6:15 p.m., Monday through Friday. Telephone—REpublic 7-4142, Extension 6337.

SCHEDULE OF CLASSES

No.	Course title (Cr.)	Instructor	Day	Time	Fee	Catalog page
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BIOLOGICAL SCIENCES

- 1-126. Disease Classification and Medical Terminology (2) Bollo Th 6:10-8 \$24 p. 15
1-427A. Physiology of Bacteria (First Half) (2) Saz W 6:10-8 \$24 p. 102
1-435. Recent Advances in Entomology (2) Hoffmann Tu 7:10-9 \$24 p. 16
(Meets at Plant Industry Station, Beltsville, Maryland)
1-570A. Design of Experiments in Biological Sciences (First Half) (2) Koch Tu 4:45-6:35
\$24 p. 16 (Meets at Plant Industry Station, Beltsville, Maryland)

The following courses in the Biological Sciences meet at the National Institutes of Health, Bethesda, Maryland

- 1-250A. Introductory and General Bacteriology (First Half) (2) McCullough M 7:30-9:20
\$24 p. 101
1-275A. Fundamentals of Virology (First Half) (2) Rowe, McBride W 7-9:00 \$24 p. 101
1-345. Elementary and Biochemical Genetics (1) Ames M 8-9:00 \$12 p. 101
1-349. General Mycology (2) Instructor to be announced M 7-9:00 \$24 p. 102
1-422. Human Physiology (3) Wolf W 6:30-9:00 \$36 p. 102
1-455. Cellular Physiology (2) Shanes Tu 7:30-9:20 \$24 p. 102
1-505. General Pathology (2) Fite M 5:30-7:30 \$24 p. 102
1-628A. Advanced Bacteriology—Bacterial Metabolism (First Half) (2) Ellinghausen Th
7:9:00 \$24 p. 103
1-714. Bacteriophages (2) De Mars Tu 7-9:00 \$24 p. 103

LANGUAGES AND LITERATURE

English—Grammar and Writing

- 2-95. Improving Reading Ability (non-credit) Murr M-Th 6:10-8 \$36 and \$15 laboratory
fee p. 20 (Meets 12 weeks)
2-112. Practical English Usage (2) \$24 p. 21
Section I Samson Tu 6:10-8
Section II Pritzker F 6:10-8
2-119. Vocabulary Building (2) Murphy Th 6-7:50 \$24 p. 21
2-222A. English Composition (First Half) (3) Instructor to be announced M 6:10-8:40
\$36 p. 21
2-223. Descriptive English Grammar (3) Harman Tu 6:10-8:40 \$36 p. 21
2-226. Introduction to Official Writing (2) Schaal Tu 6:30-8:20 \$24 p. 21
2-235. Fiction Writing (2) Arnold M 6:10-8 \$24 p. 22
2-280. Feature Writing (2) Sours W 6:10-8 \$24 p. 22
2-450. Technical Writing (2) Gilstrap, Fried M 6:30-8:20 \$24 p. 22
4-330. Government Letter Writing (2) Boyd Th 6:10-8 \$24 p. 47

Literature

- 2-330A. Great Books—Reading List B (First Half) (2) Ruppert W 6:10-8 \$24 p. 23
2-339. Literature of American Agricultural History (3) Rasmussen Tu 6:10-8:40 \$36 p. 24

Information Methods

- 2-220. Indexing (2) Swingle, Kozak Tu 6:10-8 \$24 p. 24
2-225. Principles of Editing and Their Application (3) Erhardt, George M-W 6:30-7:45 \$36
p. 24
2-412. Editing Technical Manuscripts (2) Instructor to be announced M 6:10-8 \$24 p. 25
2-415. Preparing Publications for a Mass Audience (2) Feldman Th 6:30-8:20 \$24 p. 25
2-430. Problems in Editing—Seminar (3) Perlmutter W 6:10-8:40 \$36 p. 25
2-420. Communications Review for Executives (2) McClarren (Coordinator), Webster,
McCormick, Krogh, Renaud M 6:10-8 \$24 p. 26

Library Techniques

- 2-137. Basic Reference Service and Reference Tools (2) Bonniwell Tu 6:10-8 \$24 p. 27
2-138. Introduction to Bibliographic Science (2) Popecki Th 7:10-9 \$24 p. 27

Speech

- 2-228. Fundamentals of Speech (2) Roser W 6:10-8 \$24 p. 27
2-229. Public Speaking (2) Nelson M 6:10-8 \$24 p. 28
2-232. Voice and Remedial Speech (2) Berlinsky M 6:10-8 \$24 and \$1 laboratory fee p. 28

Foreign Languages

- French
- 2-68. Reading French—Grammar Review and Vocabulary Building (non-credit) Etienne
Th 6:10-8 \$24 p. 28
2-87. French for Travelers I (non-credit) Bargin M 6:10-8 \$30 p. 28
(Schedule of Classes continued inside)

SCHEDULE OF CLASSES

No.	Course title (Cr.)	Instructor	Day	Time	Fee	Catalog page
2-253A	Elementary French (First Half) (3)	Burgin	Tu	6:10-8:40	\$36	p. 29
2-251A	Intermediate French (First Half) (3)	Burgin	Th	6:10-8:40	\$30	p. 29
2-255	French Conversation (2)	Etienne	Tu	6:10-8	\$30	p. 29
German						
2-66	Reading Scientific German (non-credit)	Lederer	W	6:10-8:40	\$24	p. 29
2-76A	Reading German—General Vocabulary (First Half) (non-credit)	Lederer	Th	6:10-8:40	\$36	p. 29
2-259A	Elementary German (First Half) (3)	Lederer	Tu	6:10-8:40	\$36	p. 30
2-261	German Conversation (2)	Lederer	M	6:10-8	\$30	(basic German required)
Italian						
2-270A	Elementary Italian (First Half) (3)	Bauer	W	6:10-8:40	\$36	p. 30
2-315	Italian Conversation and Grammar (non-credit)	Bauer	Th	6:10-8	\$30	(Prerequisite: one year of Italian)
Russian						
2-295A	Elementary Russian (First Half) (3)	Tarakus	W	6:10-8:40	\$36	p. 30
2-296A	Intermediate Russian (First Half) (3)	Saharov	Tu	6:10-8:40	\$36	p. 31
2-297A	Conversational Russian (First Half) (3)	Saharov	W	6:10-8:40	\$36	p. 31
Spanish						
2-89	Spanish for Travelers I (non-credit)	Ponce	Tu	6:10-8	\$30	p. 31
2-91	Know Our Latin Neighbors (non-credit)	Ponce	W	6:10-8	\$30	p. 31
2-300A	Elementary Spanish (First Half) (3)	Jaffe	W	6:10-8:40	\$26	p. 31
2-301A	Intermediate Spanish (First Half) (3)	Johnston	W	6:10-8:40	\$36	p. 31
2-302A	Spanish Composition and Conversation (First Half) (2)	Supervin	W	6:10-8	\$30	p. 32

MATHEMATICS AND STATISTICS

Mathematics						
3-1	Review of College Freshman Mathematics (non-credit)	Hudileston	Tu	6:10-8:40	\$36	p. 37
3-6	Preparatory Mathematics for Introductory Statistics (non-credit)	Suter	M	6:10-8	\$24	p. 36
3-100	Commercial Algebra (3)	Botts	Th	6:10-8:40	\$36	p. 37
3-102	College Algebra (4)	Taylor	M-Th	6:10-8	\$48	p. 37
3-103	Trigonometry and Analytic Geometry (4)	Stern	M-W	6:10-8	\$48	p. 38
	(Students may register for either half of the course.)					
3-206A	Calculus (First Half) (4)	Kusnec	Tu-Th	6:10-8	\$48	p. 38
3-415A	Higher Algebra (First Half) (3)	Ester	M	6:10-8:40	\$36	p. 38
3-549A	Mathematics for Economists (First Half) (3)	Foote	Tu-Th	6:10-7:45	\$36	p. 38
3-533	Introduction to Operations Research (3)	Santy	W	6:10-8:40	\$36	p. 39
3-588A	Methods of Mathematical Analysis (First Half) (3)	Santy	M	6:10-8:40	\$36	p. 39
8-222	Mathematics for Cartographers (2)	Everett	Tu	6:10-8	\$24	p. 94
Statistics						
3-126A	Introductory Statistics (First Half) (2)	Pruess	Tu	6:10-8	\$24	p. 40
3-126B	Introductory Statistics (Second Half) (2)	Ruehle-Schuldt	Th	6:10-8	\$24	p. 40
3-136	Graphic Methods of Presenting Statistics (3)	Hainsworth	M	6:10-8	\$24	p. 40
3-318	Machine Tabulation I (2)	Kuhsman	W	6:30-8:20	\$24	p. 40
3-319	Machine Tabulation II (2)	Kuhsman	F	6:30-8:20	\$24	p. 40
3-320	Introduction to Acceptance Sampling (2)	Houserman, Brinkley	M	6:10-8	\$24	p. 41
3-389A	Principles of Statistical Analysis (First Half) (3)	Stauber	Tu-Th	6:15-7:30	\$36	p. 41
3-385A	Elements of Statistical Methods (First Half) (2)	Harvey	Th	4:45-6:35	\$24	p. 41
	(Meets at Agricultural Research Center, Beltsville, Maryland)					
3-105A	Introduction to Experimental Statistics (First Half) (2)	Hendricks	Th	6:10-8	\$24	p. 41
3-408A	Principles of Sample Design and Analysis (First Half) (2)	Hendricks	Tu	6:10-8	\$24	p. 41
3-563	Data Processing on Electronic Computers I (2)	Mitchell	Tu	6:10-8	\$24	p. 42
3-566	Data Processing on Electronic Computers II (2)	Armstrong	Th	6:10-8	\$24	p. 42
3-570A	Design of Experiments in Biological Sciences (2)	Koch	Tu	4:45-6:35	\$24	p. 42
3-735A	Theory of Sample Surveys (First Half) (2)	Steinberg	W	6:10-8	\$24	p. 43
3-736A	Non-sampling Errors in Statistical Surveys (First Half) (2)	Woolf	Tu	6:10-8	\$24	p. 43
3-025	The Organization of Statistical Services Within the Federal Government (non-credit)	Ryan	October 2, 16, and 30; and November 13 (No registration required)			
	The following courses in Mathematics and Statistics meet at the National Institutes of Health, Bethesda, Maryland.					
3-165A	Survey of Biomathematics (First Half) (2)	Gosser	Th	6:00-8:00	\$24	p. 106
3-406A	Introduction to Experimental Statistics (First Half) (2)	Instructor to be announced	W	5:45-7:35	\$24	p. 166

OFFICE TECHNIQUES AND OPERATIONS

Clerical—Administrative Procedures						
4-95	Office Aids and Basic Office Practices (non-credit)	Hicks	Green	Tu	6:10-8	\$24
4-101	Everyday Mathematics (2)	Botts	W	6:10-8	\$24	p. 45
3-100	Commercial Algebra (3)	Botts	Th	6:10-8:10	\$36	p. 37
4-108	Administrative Procedure (2)	Hickey	Tu	6:10-7:50	\$24	p. 45
4-201	Supervision (2)	Kirkham	Th	6:10-8	\$24	p. 45
4-206	Essentials of Good Office Management (3)	Wagner	W	6:10-8:40	\$36	p. 46
4-112	Federal Fiscal Procedure (2)	Krueger	W	6:10-8	\$24	p. 46
4-114	Federal Personnel Procedure (2)	Starns	M	6:10-8	\$24	p. 46
4-115	Federal Purchasing Procedure (2)	Baldwin	M	6:10-8	\$24	p. 46
4-116	Federal Budgetary Procedure (2)	Carlson	Tu	6:10-8	\$24	p. 47
4-117	Records Management Procedure (2)	Lutrell, Lund	Tu	6:10-8	\$24	p. 47
4-330	Government Letter Writing (2)	Boyd	Th	6:10-8	\$24	p. 47
Shorthand						
4-89	Review of Gregg Shorthand (Anniversary) 60-90 Words (non-credit)	Stern	M-Th	6:10-7:30	\$36	p. 48
4-129	Gregg Shorthand Simplified I (3)	Gaasterland	M-Th	6:10-7:30	\$36	p. 49
4-130	Gregg Shorthand Simplified II (3)	Bell	Tu-F	6:10-7:30	\$36	p. 49
4-225	Gregg Shorthand Simplified, 60-80 Words (3)	Bell	Tu-F	7:30-8:50	\$36	p. 49
4-226	Gregg Shorthand, 80-100 Words (3)	Way	M-W	6:10-7:30	\$36	p. 49

PHYSICAL SCIENCES

General						
5-90	The Atom and Its Nucleus (non-credit)	Ellis	W	6:10-8	\$24	p. 50
5-225A	The Principles of Physical Science (First Half) (2)	Pallansch	W	7:10-9	\$24	p. 50
5-315A	Elementary Biochemistry (First Half) (2)	Hess	W	6:10-8	\$24	p. 51
5-319A	Physical Chemistry (First Half) (2)	Horwitz	M	6:10-8	\$24	p. 51
5-625	Specialized Analytical Techniques (2)	Woodard	Tu	6:10-8	\$24	p. 51
Geography and Geology						
5-114	Maps and Charts (2)	Bahn	W	6:10-8	\$24	p. 52
5-203	General Geology (3)	Douglas	Tu	6:10-8:10	\$36	p. 52
5-455	Photogeology (3)	Hemphill	M	6:10-8:40	\$36	and \$4 laboratory fee p. 52
Meteorology						
5-162	Meteorology for the Non-professional (2)	Carlin	Tu	6:10-8	\$24	p. 54
(Meets at Weather Bureau)						
5-328	Statistical Meteorology (3)	Klein	M	6:10-8:40	\$36	p. 54
(Meets at Suitland, Maryland)						
5-330	Agricultural Meteorology (3)	Beall, Springer	Tu	6:10-8:40	\$36	p. 55
(Meets at Weather Bureau)						
5-531A	Introduction to Dynamic Meteorology (First Half) (3)	Carlin	M	6:10-8:40	\$36	p. 55
(Meets at Weather Bureau)						
5-536A	Synoptic Meteorology (First Half) (3)	Winston	M	6:10-8:40	\$36	p. 55
(Meets at Suitland, Maryland)						
5-538A	Weather Analysis and Forecasting (First Half) (2)	Winston, Gray	W	6:10-10	\$24	
and \$4 laboratory fee p. 56						
(Meets at Suitland, Maryland)						
Oceanography						
5-360	General Oceanography (2)	Vetter	Tu	6:10-8	\$24	p. 56
5-582	Mathematics for Oceanographers (2)	Simpson	Th	4:5-5:0	\$24	p. 57
(Meets at Suitland, Maryland)						
5-584	Physical Properties of Sea Water (2)	Magnitzky	Tu	4:5-5:0	\$24	p. 57
(Meets at Suitland, Maryland)						
5-66						

U. S. DEPARTMENT OF AGRICULTURE
GRADUATE SCHOOL
WASHINGTON 25, D. C.

1957 FALL SCHEDULE OF CLASSES

